

Dr. Magda Havas, PhD

DR. HAVAS INTERVIEWS ELECTROSMOG EXPOSURE EMF LINKS FROM ZORY'S ARCHIVE HEALTH ISSUES LIST OF SPEAKING ENGAGEMENTS VIDEO

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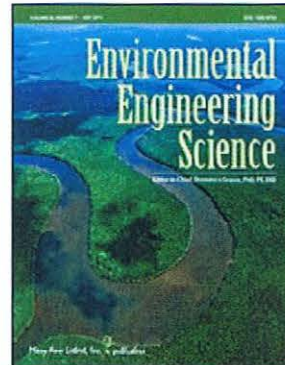
Multiple Sclerosis

MERCURY IN BROKEN CFL BULBS CAN EXCEED SAFE EXPOSURE LEVELS FOR HUMANS!

July 6, 2011. Finally someone measured the mercury content of compact fluorescent light (CFL) bulbs!

We have been told that these bulbs contain 0.5 mg of mercury and that lower mercury-content bulbs will be produced in the future, yet many bulbs exceed this value as shown in the article below.

Li,Y. and L. Jin. 2011. Environmental Release of Mercury from Broken Compact Fluorescent Lamps, ENVIRONMENTAL ENGINEERING SCIENCE. 28 (10), 5 pp. Click [here](#) for pdf with links and [here](#) for abstract.



The total amount of mercury in CFLs ranged from 0.1 to 3.6 mg.

What does this mean?

Let's look at the [water quality guidelines for mercury](#) as a comparison.

The maximum concentration of total mercury in drinking water is 1.0 micro gram per litre. That number is 0.001 mg mercury per litre of water. Therefore the mercury content of a CFL bulb, at the nominal 0.5 mg per bulb, is 500 times higher than the concentration in a litre of drinking water!

Is there anyone out there who is a watch dog for this product or can CFL manufacturers do anything they want? We don't allow lead paint on toys from China yet we import light bulbs that contain mercury! This is not a bright idea for us, for the environment, or for the Chinese workers. Click [here](#) to read 'Green' lightbulbs poison workers, Hundreds of factory staff are being made ill by mercury used in bulbs destined for the West.

According to Li and Jin (2011), CFL bulbs continue to release mercury vapor for more than 10 weeks once broken. "Total amount of Hg [mercury] vapor released from a broken CFL can exceed 1.0 mg, which can cause Hg [mercury] levels in a regular room to exceed the safe human exposure limit under poor ventilation conditions."

Mercury, as long as it is contained within the light bulb is not a problem. But if the CFL bulb breaks, either in the home or at the dump, the mercury is released into the atmosphere contributing to the global load of mercury. In the home the neurotoxic mercury can be inhaled by the occupants if a bulb breaks.

Rapid clean-up according to the U.S. Environmental Protection Agency (EPA) is highly recommended as is proper disposal at a toxic waste site that is equipped to handle these light bulbs. Click [here](#) for EPA recommendations.

The fact that [Canada is considering extending the deadline for banning energy inefficient light bulbs for two more years](#) is a breath of fresh air.

Reducing greenhouse gases is a noble venture but not with products that are poisons to both humans and other life-forms. Surely our engineers and designers can do better than this!

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ZORY'S ARCHIVES

The History of Health Effects from RF and Microwave Radiation in the Archives of Zory Glaser

Dr. Zory R. Glaser Ph.D., L.S.
Former U.S. Navy Researcher,
Executive Secretary Advisor to

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